

**ABSTRACT OF THE DISCLOSURE**

A low-pressure mold valve assembly includes a coupler to removably attach a mix head to a mold assembly in an assembly line environment. A first piston which is rectilinear in cross section is movable within the first flow passage along a first axis by an actuator. A second piston is movable along a second axis substantially perpendicular to the first axis by a second actuator. After injection is complete, the second piston seals a mix chamber of the mix head while remnants of the matrix that remain in a flow passage are driven into the first flow passage by the piston. The first piston is then driven toward the mold port such that matrix remnants are further driven into the mold cavity. The coupler is thus cleared of remnants without flushing.

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